

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

IN THE CLAIMS AMEND

1. (Currently Amended) An anodic zinc electrode for use in an alkaline based electrochemical cell comprising:
  - a current collector; and
  - an active material composition applied in the current collector, wherein the active material composition includes Zn and ZnO, and wherein the weight ratio of the Zn to ZnO ranges from approximately 1 greater than 1.5 - 2 to approximately 1 which enables the anodic zinc electrode to be associated with an electrochemical cell assembled in a charged or discharged state.
2. (Original) The anodic zinc electrode according to claim 1, further comprising a zincate solubility modifier selected from the group consisting of Be(OH)<sub>2</sub>, Mg(OH)<sub>2</sub>, Ca(OH)<sub>2</sub>, Sr(OH)<sub>2</sub>, Ba(OH)<sub>2</sub>, Ra(OH)<sub>2</sub>, and mixtures thereof
3. (Original) The anodic zinc electrode according to claim 1, further comprising a hydrogen gas suppressant selected from the group consisting of PbO, CdO, Bi<sub>2</sub>O<sub>3</sub>, In<sub>2</sub>O<sub>3</sub> and mixtures thereof..
4. (Currently Amended) The anodic zinc electrode according to claim 1, further comprising a binding agent selected from the group consisting of CMC carboxymethylcellulose, PTFE polytetrafluoroethylene, PVA polyvinylalcohol and mixtures thereof.

5. (Cancelled)

6. (Cancelled)

7. (Cancelled)

8. (Cancelled)

9. (Currently Amended) An electrochemical cell, comprising:

- a cathodic electrode;
- a separator/absorber;
- an alkaline electrolyte;
- an anodic zinc electrode comprising:
  - a current collector; and
  - an active material composition applied in the current collector, wherein the active material composition includes Zn and ZnO, and wherein the weight ratio of the Zn to ZnO ranges from approximately 1 greater than 1.5 - 2 to approximately 1 which enables the anodic zinc electrode to be associated with an electrochemical cell assembled in a charged or discharged state.

10. (Original) The electrochemical cell according to Claim 9, wherein the anodic zinc electrode further comprises a zincate solubility modifier selected from the group consisting of  $\text{Be(OH)}_2$ ,  $\text{Mg(OH)}_2$ ,  $\text{Ca(OH)}_2$ ,  $\text{Sr(OH)}_2$ ,  $\text{Ba(OH)}_2$ ,  $\text{Ra(OH)}_2$ , and mixtures thereof

11. (Original) The electrochemical cell according to claim 9, wherein the anodic zinc electrode further comprises a hydrogen gas suppressant selected from the group consisting of  $\text{PbO}$ ,  $\text{CdO}$ ,  $\text{Bi}_2\text{O}_3$ ,  $\text{In}_2\text{O}_3$  and mixtures thereof.

12. (Currently Amended) The electrochemical cell according to claim 9, wherein the anodic zinc electrode further comprises a binding agent selected from the group consisting of ~~CMC carboxymethylcellulose, PTFE polytetrafluoroethylene, PVA polyvinylalcohol~~ and mixtures thereof.

13. (Original) The electrochemical cell according to claim 9, wherein the cathodic electrode comprises manganese dioxide.

14. (Original) The electrochemical cell according to claim 9, wherein the cathodic electrode comprises nickel-hydroxide and/or nickel-oxide.

15. (Original) The electrochemical cell according to claim 9, wherein the cathodic electrode comprises silver and/or silver-oxide.

16. (Cancelled)

17. (Cancelled)

18. (Cancelled)

19. (Cancelled)

20. (Cancelled)

21. (Cancelled)

22. (Cancelled)

23. (Currently Amended) A method for manufacturing an anodic zinc electrode for use in an alkaline based electrochemical cell assembled in a charged and discharged state, comprising the steps of:

- providing a current collector;
- providing an active material composition, wherein the active material composition includes Zn and ZnO, and wherein the weight ratio of Zn to ZnO ranges from approximately 1 greater than 1.5 - 2 to approximately 1 which enables the anodic zinc electrode to be associated with an electrochemical cell assembled in a charged or discharged state; and

- associating the active material composition with the current collector.

24. (Cancelled)

25. (Cancelled)